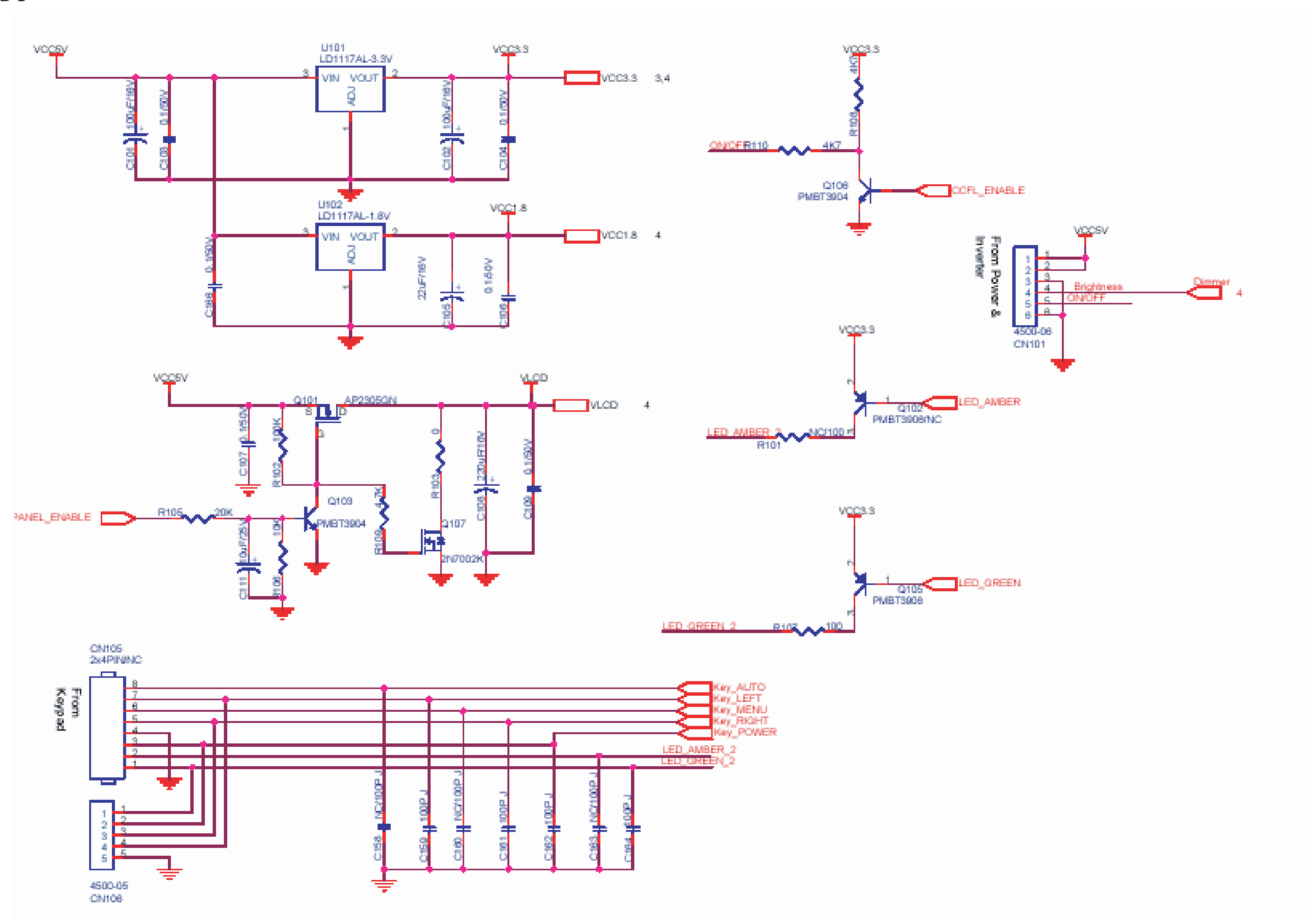
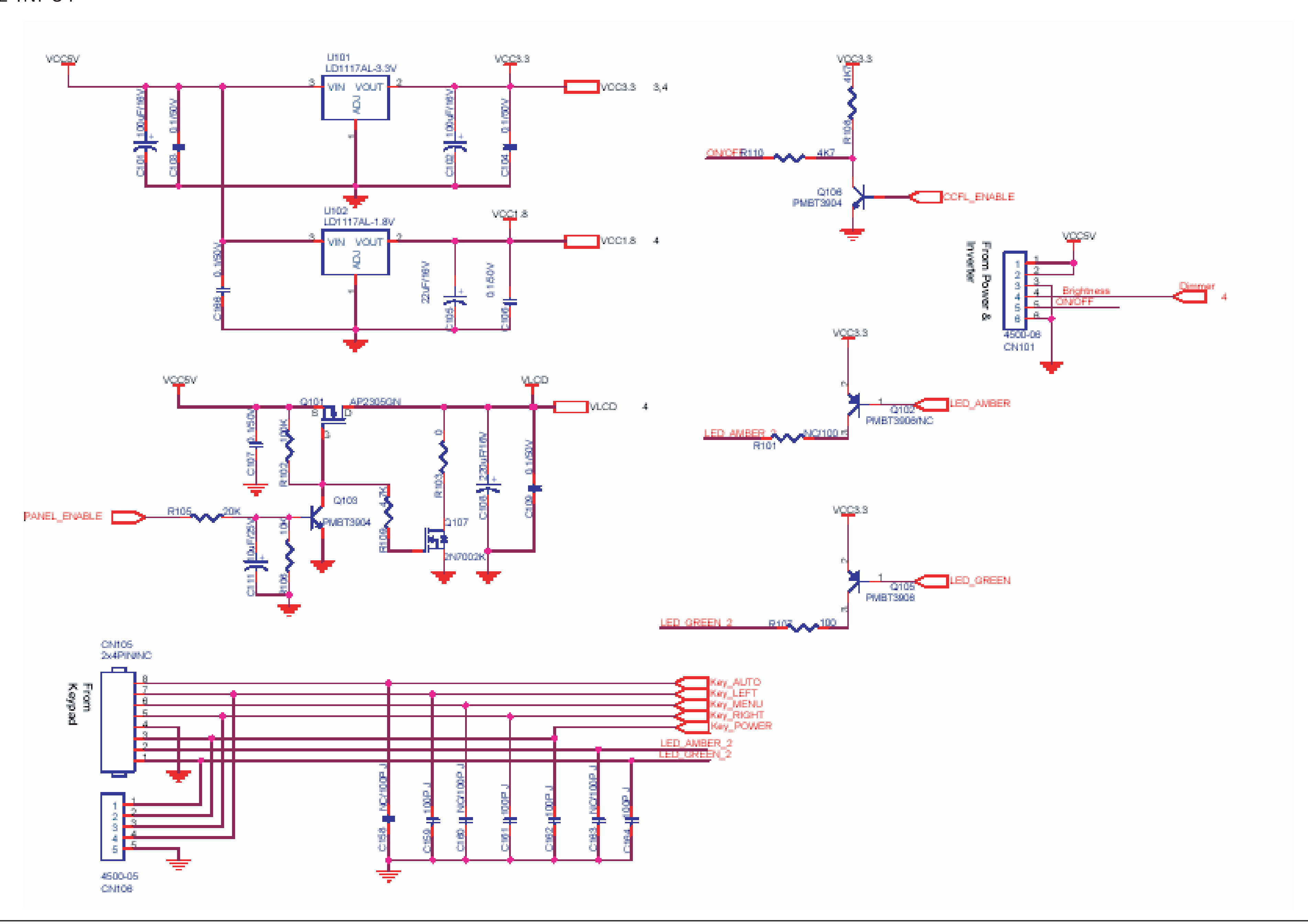
9 Schematic Diagrams

- This Document can not be used without Samsung s authorization.

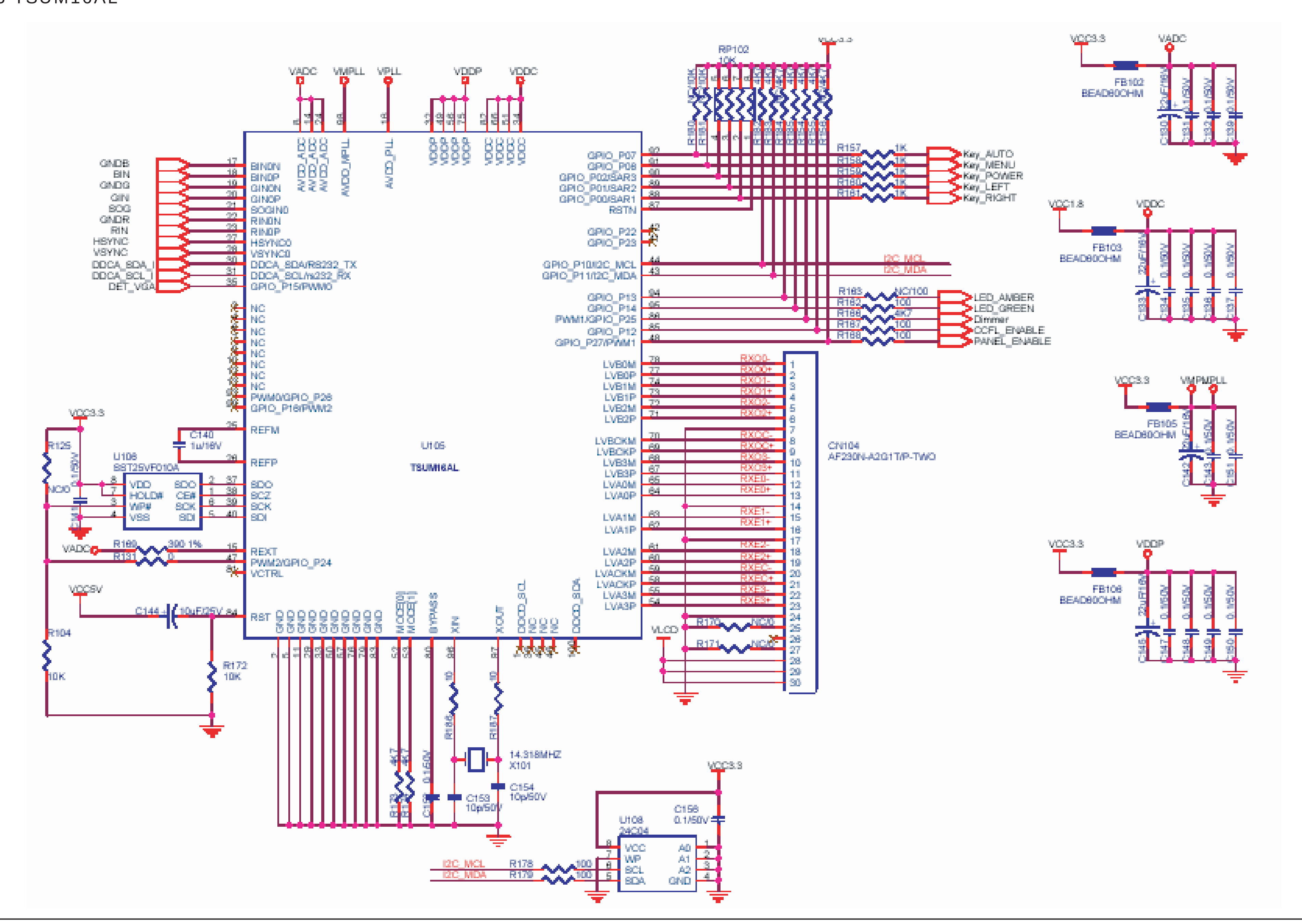
9-1 DC-DC



9-2 INPUT

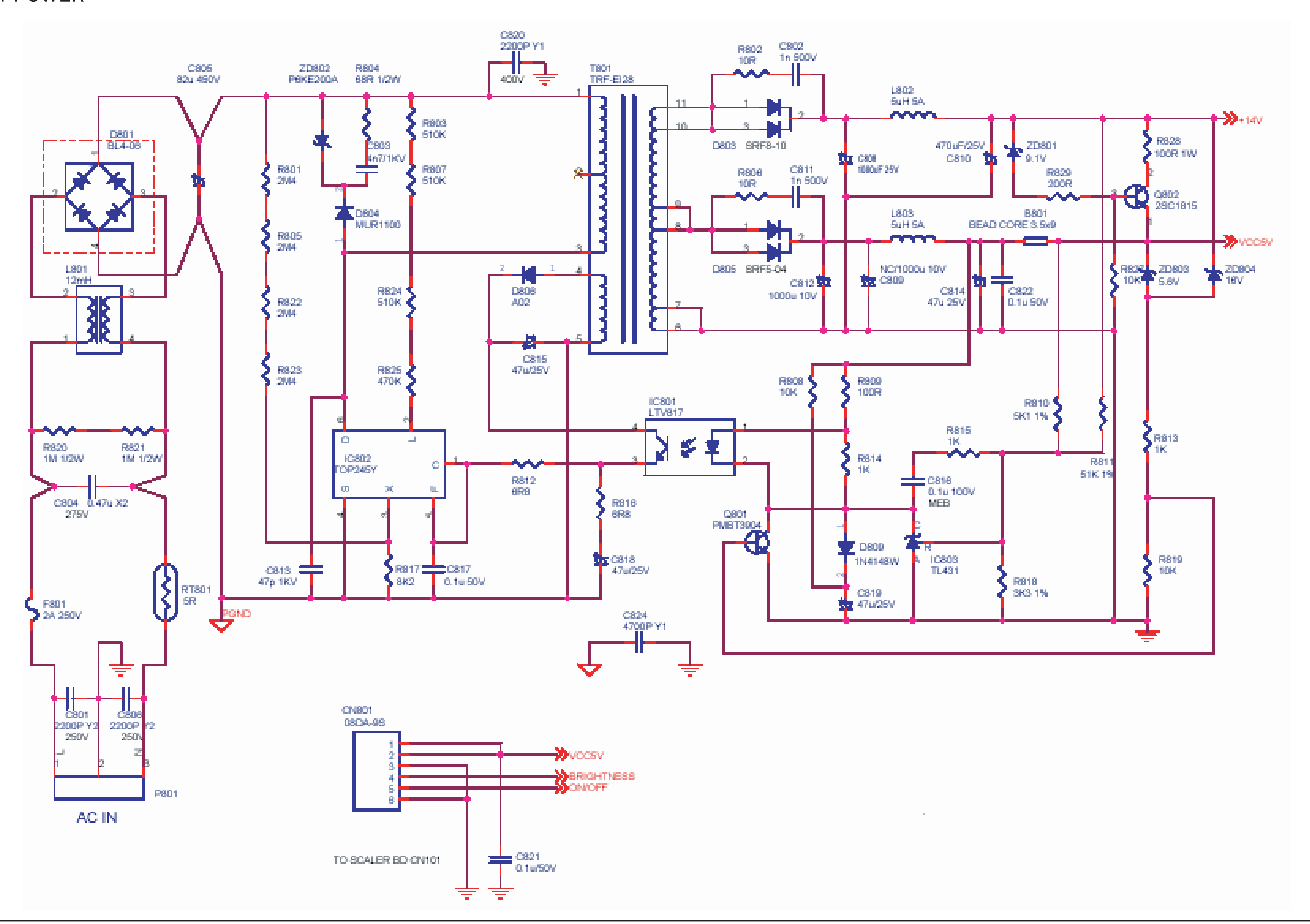

VCC5V
U101
LD1117AL-3.3V
VIN VOUT
ADJ
VCC3.3
VCC3.3 3,4
100uF/16V
0.1/50V
C101
C103
C102
C104
U102
LD1117AL-1.8V
VCC1.8
VCC1.8 4
22uF/16V
0.1/50V
C105
C106
C198
ON/OFF
R110
4K7
R108
Q106
PMBT3904
CCFL_ENABLE
VCC5V
From Power & Inverter
Brightness
ON/OFF
Dimmer 4
4500-06
CN101
VLCD
VLCD 4
Q101
AP2305GN
C107
R102
10K
R103
220uF/16V
C108
C109
PANEL_ENABLE
R105
20K
Q103
PMBT3904
4.7K
R109
Q107
2N7002K
C111
R106
VCC3.3
LED_AMBER
Q102
PMBT3906/NC
LED_AMBER_2
NC/100
R101
VCC3.3
LED_GREEN
Q105
PMBT3906
LED_GREEN_2
R107
100
CN105
2x4PIN/NC
From Keypad
Key_AUTO
Key_LEFT
Key_MENU
Key_RIGHT
Key_POWER
LED_AMBER_2
LED_GREEN_2
NC/100P J
100P J
C158
C159
C160
C161
C162
C163
C164
4500-05
CN106

9-3 TSUM16AL

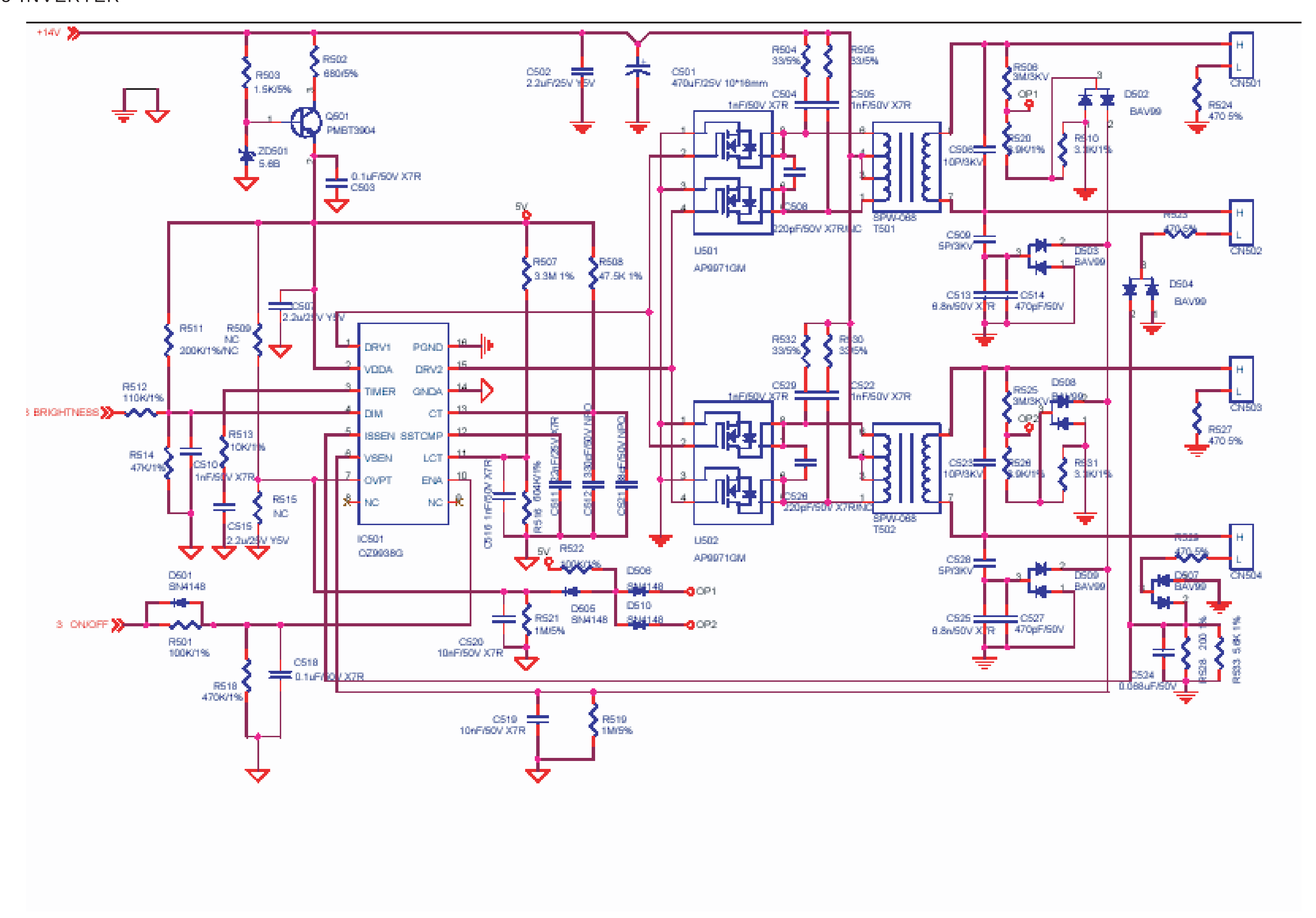


U105
TSUM16AL
U106
SST25VF010A
U108
24C04
CN104
AF230N-A2G1T/P-TWO
RP102
10K
FB102
BEAD60OHM
FB103
BEAD60OHM
FB105
BEAD60OHM
FB106
BEAD60OHM
14.318MHZ
X101
VCC3.3
VCC1.8
VCC5V
VADC
VMPLL
VPLL
VDDP
VDDC
VLCD
I2C_MCL
I2C_MDA
Key_AUTO
Key_MENU
Key_POWER
Key_LEFT
Key_RIGHT
LED_AMBER
LED_GREEN
Dimmer
CCFL_ENABLE
PANEL_ENABLE
GNDB
BIN
GNDG
GIN
SOG
GNDR
RIN
HSYNC
VSYNC
DDCA_SDA_I
DDCA_SCL_I
DET_VGA

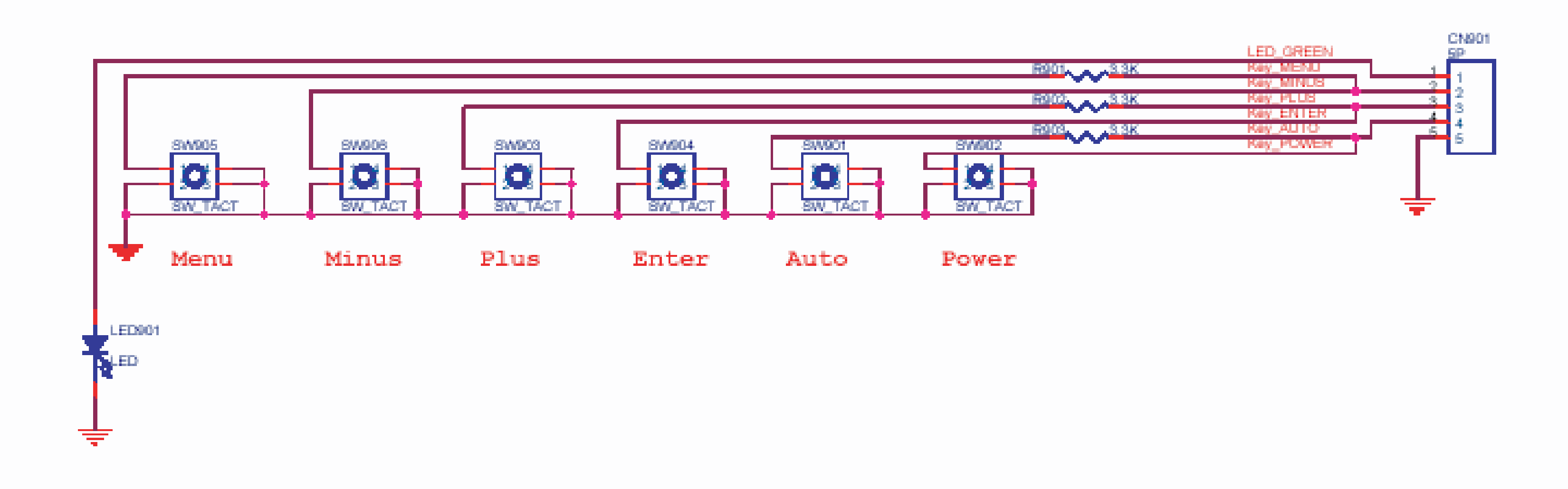
9-4 POWER


C820
2200P Y1
400V
C805
82u 450V
ZD802
P6KE200A
R804
68R 1/2W
T801
TRF-EI28
R802
10R
C802
1n 500V
L802
5uH 5A
+14V
D801
BL4-06
R803
510K
C803
4n7/1KV
R807
510K
D803 SRF8-10
C808
1000uF 25V
470uF/25V
C810
ZD801
9.1V
R828
100R 1W
R801
2M4
R806
10R
C811
1n 500V
R829
200R
Q802
2SC1815
D804
MUR1100
L803
5uH 5A
B801
BEAD CORE 3.5x9
VCC5V
R805
2M4
D805 SRF5-04
NC/1000u 10V
C809
C812
1000u 10V
C814
47u 25V
C822
0.1u 50V
ZD803
5.6V
ZD804
16V
L801
12mH
R822
2M4
R824
510K
D806
A02
C815
47u/25V
R823
2M4
R825
470K
R808
10K
R809
100R
IC801
LTV817
R810
5K1 1%
R813
1K
R815
1K
R820
1M 1/2W
R821
1M 1/2W
IC802
TOP245Y
R812
6R8
R814
1K
R811
51K 1%
C804 0.47u X2
275V
R816
6R8
Q801
PMBT3904
C816
0.1u 100V
MEB
D809
1N4148W
IC803
TL431
C813
47p 1KV
R817
8K2
C817
0.1u 50V
C818
47u/25V
R819
10K
F801
2A 250V
RT801
5R
PGND
C819
47u/25V
R818
3K3 1%
C824
4700P Y1
C801
2200P Y2
250V
C806
2200P Y2
250V
P801
AC IN
CN801
08DA-9S
VCC5V
BRIGHTNESS
ON/OFF
TO SCALER BD CN101
C821
0.1u/50V

9-5 INVERTER



9-6 KEYPAD



CN901
5P
LED_GREEN
Key_MENU
Key_MINUS
Key_PLUS
Key_ENTER
Key_AUTO
Key_POWER
R901
R902
R903
3.3K
SW905
SW906
SW903
SW904
SW901
SW902
SW_TACT
Menu
Minus
Plus
Enter
Auto
Power
LED901
LED